UNITED STATES PATENT AND TRADEMARK OFFICE

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/620,469	07/15/2003	Timothy S. Beatty	42P15523	8633

8791   7590   08/24/2005

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EXAMINER
NGUYEN, DANG T

ART UNIT	PAPER NUMBER
2824	

DATE MAILED: 08/24/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)
Office Action Summary	10/620,469	BEATTY ET AL.
	Examiner	Art Unit	
	Dang T. Nguyen	2824	/1

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE *3* MONTH(S) FROM
THE MAILING DATE OF THIS COMMUNICATION.
- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed
  after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
  Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any
  earned patent term adjustment. See 37 CFR 1.704(b).

Status

1) ☒ Responsive to communication(s) filed on *14 June 2005*.

2a) ☒ This action is **FINAL**.   2b) ☐ This action is non-final.

3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is
   closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

4) ☒ Claim(s) *1-12 and 16-19* is/are pending in the application.

   4a) Of the above claim(s) *3* is/are withdrawn from consideration.

5) ☒ Claim(s) *1,2 and 4-12* is/are allowed.

6) ☒ Claim(s) *16-19* is/are rejected.

7) ☐ Claim(s) _____ is/are objected to.

8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

9) ☐ The specification is objected to by the Examiner.

10) ☒ The drawing(s) filed on *15 July 2003* is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.

    Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).

    Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).

11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).

    a) ☐ All   b) ☐ Some * c) ☐ None of:

    1. ☐ Certified copies of the priority documents have been received.

    2. ☐ Certified copies of the priority documents have been received in Application No. _____.

    3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage
       application from the International Bureau (PCT Rule 17.2(a)).

    * See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

1) ☐ Notice of References Cited (PTO-892)	4) ☐ Interview Summary (PTO-413)
2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)	Paper No(s)/Mail Date. _____ .
3) ☐ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)	5) ☐ Notice of Informal Patent Application (PTO-152)
Paper No(s)/Mail Date _____ .	6) ☒ Other: *Search history*.

Response to Amendment

1.   This office action is in response to applicant's amendment received on 6/14/05.

Claims 1, 2, 4-5 and 11 have been amended. Claims 13-15 and 20 have been canceled

per 10/26/04 response. Claims 1, 2, 4 - 12, and 16 – 19 are pending on this application.

Claims 1, 13 and 16 are independent claims.

Claim Objections

2.   Claims 3 and 19 objected to under 37 CFR 1.75(c), as being of improper

dependent form for failing to further limit the subject matter of a previous claim.

Applicant is required to cancel the claim(s), or amend the claim(s) to place the claim(s)

in proper dependent form, or rewrite the claim(s) in independent form.

Claim 19 is drawn to a "storage medium" and claim 16 is drawn to a "method

implemented within a memory driver".

Claim 3 should be canceled since claim 1 was amended to include the limitations

of claim 3; hence "withdrawn" claim 3 fails to further limit 6/9/2005 amended claim 1.

Claim Rejections - 35 USC § 102

3.   The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that

form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 16 – 19 are rejected under 35 U.S.C. 102(b) as being anticipated by Ooishi U.S. patent No. 6,175,532 B1 – filed: May 21, 1999.

Regarding independent claim 16, Fig. 64 [1602] of Ooishi discloses method implemented within a memory driver (Fig. 54[1602]) comprising: receiving at least a subset (Fig. 64 [A1 – A8]) of an address for promotion to a memory (Fig. 54 [1600]); and selectively replacing (Fig. 64 [1616]) at least the subset of the received address with a process identifier (Fig. 64 [1616]) if it is determined that the subset of the received addresses is composed of zeroes (Col. 58 lines 45 – 50).

Regarding dependent claim 17, Fig. 55C of Ooishi further comprising: analyzing the received subset (A3, A4) of the address (A1, A2, A3, A4) to determine whether the subset of composed of zeroes (first row of A3, A4 in Fig. 55C) and, if so, to provide an indication (Fig. 64 [Coincide]) to a multiplexing element (Fig. 64 [1616]) to replace the received subset of the address with the process identifier (Fig. 64 [1616]).

Regarding dependent claim 18, Ooishi discloses a method implemented within a memory driver (Fig. 64) according to claim 18, further comprising: asserting either the received address [1614], or a modified version [1612] thereof based, at least in part, on whether the received subset of the address is composed of zeroes (Col. 58 lines 32 – 34).

Regarding dependent claim 19, Fig. 1 of Ooishi discloses a storage medium comprising content which, when executed by an accessing machine, causes the machine to generate a memory driver according to claim 16 (Col. 6 lines 35 – 44).

### *Allowable Subject Matter*

4.   Claims 1, 2, and 4 – 12 are allowed.

5.   The following is an examiner's statement of reasons for allowance:

With respect to claim 1, in addition to other elements in the respective claim,

the prior art fails to teach or suggest "a pulse generator element, to receive a clock

signal and produce at least two reference signals, overlapping yet offset from one

another in time; and one or more driver elements, coupled to the multiplexing element

and responsive to the pulse generator element, to receive content promoted from the

multiplexing element during a precharge phase the reference signals, and to assert the

content received from the multiplexer to the memory during a discharge phase of the

reference signals".

Response to Arguments

6.   Applicant's arguments filed 6/14/05 have been fully considered but they are not

persuasive.

7.   Under remarks, on page 9, with respect to claim 16, applicant argued that

applicant is unable to locate any reference to use of a process identifier (PID) within the

Ooishi reference. Examiner respectful disagrees from the following:

F I G. 6 4
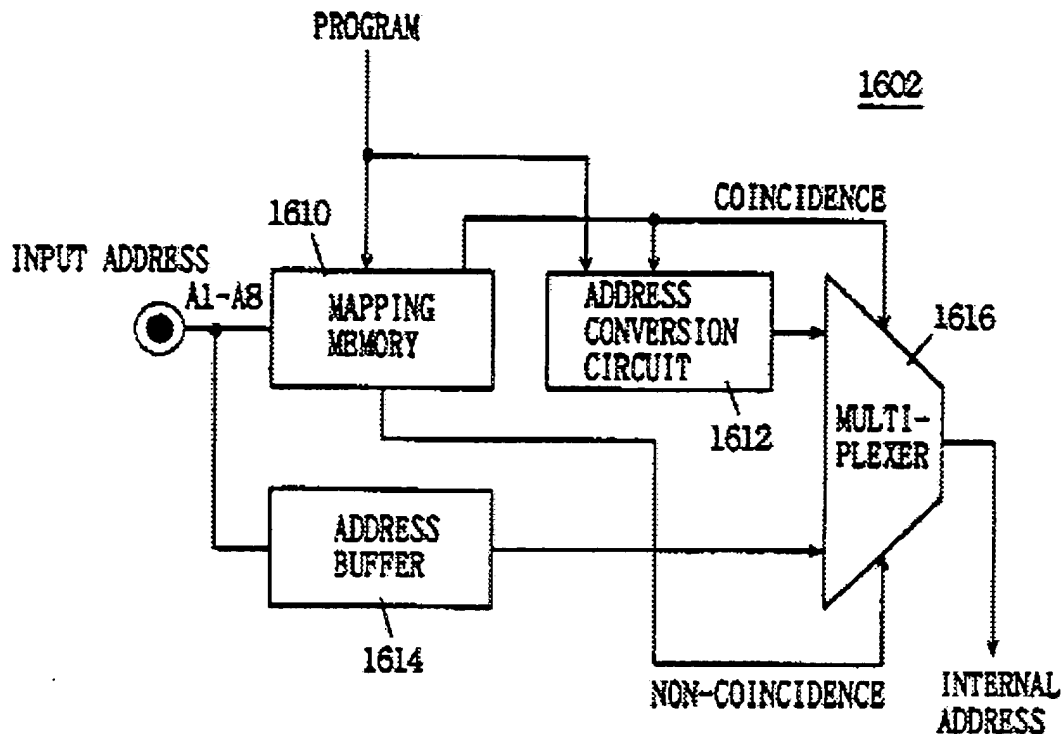
The Multiplexer [1616] of Fig. 64 of Ooishi may be construed as a process

identifier (PID) because it has to identify what type of selection input such that

"coincidence" or "non-coincidence" to select the output of program conversion address

or address buffer. Therefore, previous office action applied to this as a final rejection.

Conclusion

8.   Applicant's amendment necessitated the new ground(s) of rejection presented in

this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP

§ 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37

CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE

MONTHS from the mailing date of this action. In the event a first reply is filed within

TWO MONTHS of the mailing date of this final action and the advisory action is not

mailed until after the end of the THREE-MONTH shortened statutory period, then the

shortened statutory period will expire on the date the advisory action is mailed, and any

extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of

the advisory action. In no event, however, will the statutory period for reply expire later

than SIX MONTHS from the date of this final action.

Contact Information

9.   Any inquiry concerning this communication from the examiner should be directed

to Dang Nguyen, who can be reached by telephone at (571) 272-1955. Normal contact

times are M-F, 8:00 AM - 4:30 PM.

Upon an unsuccessful attempt to contact the examiner, the examiner's

supervisor, Richard Elms, may be reached at (571) 272-1869.
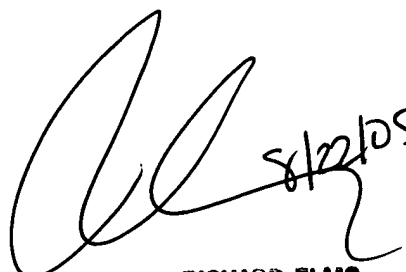
Any inquiry of a general nature or relating to the status of this application or

proceeding should be directed to the receptionist, whose telephone number is (703)

305-3900. The faxed phone number for organization where this application or

proceeding is assigned is (703) 872-9306.

Information regarding the Status of an application may be obtained from the

patent Application Information Retrieval (PAIR) system. Status information for published

applications may be obtained from either Private PAIR or Public PAIR. Status

information for unpublished applications is available through Private PAIR only. For

more information about the PAIR system, see http://pair-direct.uspto.gov. Should you

have questions on access to the Private PAIR system, contact the Electronic Business

Center (EBC) at 866-217-9197 (toll-free) or EBC@uspto.gov.

Dang Nguyen   8/22/2005

RICHARD ELMS
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